

What is claimed is:

1. An apparatus for analyzing a substrate employing a copper decoration, the apparatus comprising:
 - a bath having at least two receiving containers for receiving electrolytes;
 - slots formed at insides of the receiving containers for receiving substrates to be analyzed in a direction that is normal to a bottom face of the bath;
 - lower copper plates provided in the receiving containers, the lower copper plates making contact with entire rear faces of the substrates received in the receiving containers;
 - upper copper plates provided in the receiving containers, each of the upper copper plates corresponding to a respective one of the lower copper plates, and separated from front faces of the substrates; and
 - a power source connected to the upper copper plates and to the lower copper plates for providing voltages to the upper copper plates and to the lower copper plates.
2. The apparatus as claimed in claim 1, wherein the receiving containers are separated from each other to prevent the electrolytes received in the receiving containers from being mixed together.

3. The apparatus as claimed in claim 1, wherein the upper copper plates and the lower copper plates provided in the receiving containers are connected to the power source in parallel.

4. The apparatus as claimed in claim 3, further comprising first switching devices provided between the power source and the lower copper plates in order to selectively apply the voltages to the lower copper plates from the power source.

5. The apparatus as claimed in claim 3, further comprising second switching devices provided between the power source and the upper copper plates in order to selectively apply the voltages to the upper copper plates from the power source.

6. The apparatus as claimed in claim 1, further comprising additional power sources corresponding to the number of the receiving containers, and the upper copper plates and the lower copper plates are connected to each of the power sources in series.

7. The apparatus as claimed in claim 1, wherein the power source has a negative bias terminal connected to the lower copper plates, and a positive bias terminal connected to the upper copper plates.

8. The apparatus as claimed in claim 1, wherein the lower copper plates have connecting terminals connected to the power source.

9. The apparatus as claimed in claim 1, wherein the upper copper plates have connecting terminals connected to the power source.

10. The apparatus as claimed in claim 1, wherein the electrolyte includes methanol.

11. The apparatus as claimed in claim 1, wherein the receiving containers have predetermined depths to completely receive the substrates in the direction that is normal to the bottom face of the bath.

12. An apparatus for analyzing a substrate employing a copper decoration, comprising:

a bath having at least two receiving containers defined by isolation walls wherein the receiving containers independently receive electrolytes, respectively;

a lower copper plate provided on an entire bottom face of the bath;

upper copper plates provided in the receiving containers, the upper copper plates corresponding to the lower copper plate and being separated from the lower copper plate; and

a power source connected to the upper copper plates and to the lower copper plate for providing voltages to the upper copper plates and to the lower copper plate.

13. The apparatus as claimed in claim 12, wherein the receiving containers define portions of the lower copper plate so that the portions of the lower copper plate defined by the receiving containers have respective sizes sufficient to receive rear faces of substrates to be analyzed.

14. The apparatus as claimed in claim 12, further comprising switching devices provided between the power source and the upper copper plates in order to selectively apply the voltages to the upper copper plates from the power source.

15. The apparatus as claimed in claim 12, wherein the lower copper plate includes a connecting terminal connected to the power source.

16. The apparatus as claimed in claim 12, wherein the upper copper plates include connecting terminals connected to the power source.

17. The apparatus as claimed in claim 12, wherein the power source includes a negative bias terminal connected to the lower copper plate, and a positive bias terminal connected to the upper copper plates.

18. An apparatus for analyzing a substrate employing a copper decoration, comprising:

a bath including a bottom face for receiving at least two substrates to be analyzed, wherein an electrolyte is received in the bath;

a lower copper plate provided on an entire bottom face of the bath wherein the substrates to be analyzed are placed on an upper face of the lower copper plate;

an upper copper plate provided in the bath, the upper copper plate corresponding to the lower copper plate and being separated from the lower copper plate; and

a power source for providing voltages to the upper copper plate and to the lower copper plate.

19. The apparatus as claimed in claim 18, wherein the power source includes a negative bias terminal connected to the lower copper plate, and a positive bias terminal connected to the upper copper plate.